

# **CONTENTS**

---

---

## **SYMPORIUM A — CAPITAL COST CONTROL**

---

- A-1      *Basics of Early Warning Cost Control* — Paul B. Shiring, Jr., CCE**
- A-2      *Graphics for Early Warning Cost Control* — William C. Hickey**
- A-3      *Engineering Cost and Schedule Control* — James A. Bent, CCE**
- A-4      *How to Interface Cost & Planning in Offshore Projects* — Pierre Boutineau and Jean Jacques Eldin**
- A-5      *Newton's Three Laws of Cost Engineering* — Hans J. Lang, CCE**
- A-6      *Integration of Cost and Planning: Myth or Reality?* — Serge Pressoir**
- A-7      *Construction Cost Control at the Corporate Level* — Rupinder S. Ranger and Bevis A. Ostermann**

---

## **SYMPORIUM B — CAPITAL COST ESTIMATING**

---

- B-1      *How to do a Good Coal Plant Quick Estimate in Less Than an Hour (or, What to do until some engineering is done?)* — Tom B. Thamm, CCE**
- B-2      *Risk Evaluation of Alternative Energy Sources* — Franklin D. Postula and William C. Finch**
- B-3      *We Need New Factors for Cost Estimating* — Marc Ducros**
- B-4      *Instrumentation Cost Estimating by Loops* — Don P. Kidwell**
- B-5      *Quantifying Risks in Capital Estimates* — Patricia A. Owen and John K. Nabors**
- B-8      *Rapid Capital Estimation Based on Process Modules* — Dr. Ivan V. Klumpar, CCE, Robin E. Brown and Jorg W. Fromme**

---

## **SYMPORIUM C — CONSTRUCTION COST MANAGEMENT**

---

- C-1      *Project Controls from a Construction Management Perspective* — Syed-H. Zaheer, CCE**
- C-2      *Construction Delay Claims: Treatment of Extended Overhead* — Ronald F. Parisi and Robert J. Schlunt**
- C-3      *Claims Control/Cost Control: Working Together* — Thomas P. Roche**

---

## **SYMPORIUM D — MANAGEMENT SCIENCE**

---

- D-1      *Cumulative Law of Common Events* — Marvin Gates, CCE, and Amerigo Scarpa**
- D-3      *Risk Management in Cost Engineering: Application of Utility Theory* — Dr. Carl Wolf, CCE, and Gordon S. Kalley**

---

(continued on next page)

---

## **SYMPORIUM E — PLANNING & SCHEDULING**

---

- E-1** *Scheduling Specifications for the 80's* — Dr. Gui Ponce de Leon
- E-2** *Cost and Schedule Integration in Process Plants Construction* — Chandra S. Murthy
- E-3** *The Planning Engineer: A Human Element of Planning and Scheduling* — Remo J. Silvestrini
- E-4** *Meaningful Scheduling Summaries for Management* — Robert R. Cook, CCE
- E-5** *CPM Techniques Really Can Be Applied to Major Mechanical and Electrical Construction* — Peter J. Schappa, CCE, and Dwight A. Zink, CCE

---

## **SYMPORIUM F — COST INDEXING**

---

- F-1** *The Influence of the "Bidding Volume Index" in Forecasting Highway Construction Costs* — Devo Seereeram and Zohar Herbsman
- F-3** *Slurry Pipeline Cost Estimate Index* — Charles A. Larson, CCE

---

## **SYMPORIUM G — COMPUTER APPLICATIONS**

---

- G-1** *Computerizing the Cost Engineer: Benefit or Ballyhoo?* — John J. Lucas
- G-2** *The Personal Computer for Project Management* — Glenn Peters
- G-3** *Microcomputer Applications in Cost Engineering: A Cost Effective Supplement to Your Main Frame Computer* — William S. Grubbs and Robert E. Templeton, CCE
- G-5** *The "FAST" Cost Estimating Models* — Frank R. Freiman
- G-6** *A "Personal" Solution to Your Project Control Problem* — Edward Zamojski, CCE

---

## **SYMPORIUM H — PRODUCTIVITY**

---

- H-1** *Cost Effectivity of a Management Information System for Job-Shop Forecasting* — Dr. Eric M. Malstrom and Gaillard M. Graban
- H-2** *Significant Elements of Construction Productivity* — Dr. Carleton Coulter, III, and Victor F. Spruill
- H-3** *Pricing Minor Civil Engineering Structures* — Walter T. Vanaman, CCE

---

## **SYMPORIUM I — UTILITY COST MANAGEMENT**

---

- I-1** *Landfill Gas: A Viable Energy Source* — M.D. Bracy and Charles L. Devore
- I-2** *Utility Production Cost Management Strategies for the 1980's* — Ram L. Bashambu
- I-3** *The Cogeneration Alternative* — Ronald F. Schnorr
- I-4** *Compressed Air Energy Storage in an Aquifer* — John A. Istvan, II

---

## **SYMPORIUM J — ENERGY COSTS**

---

- J-1      *Energy Costs in the Construction Process* — Dr. James E. Rowings, Jr.**
- J-2      *Energy Data Bases: A Wealth of Existing Energy Cost Data* — William E. Gallagher and Thomas C. Ponder, Jr., CCE**
- J-3      *Cost Information Available through the DOE Energy Data Base* — Charles E. Stuber**
- J-4      *Economical Energy from Wood* — William C. Chambers, Jr., CCE**

---

## **SYMPORIUM K — MATERIAL CONTROL**

---

- K-1      *Integration of Cost and Scheduling with Materials Management Function* — John C. Cato and Chandra S. Murthy**
- K-2      *Materials Procurement* — Peter Passanisi and Maryon Ruchelman**
- K-3      *A Commented Survey of Material Management Software Packages* — Dr. Calin Popescu and Hugo R. Orozco Aguirre**
- K-4      *Two Case Studies in Material Cost Management* — Michael B. O'Connor**
- K-5      *Project Material & Equipment Control (Conception to In-Service)* — Wilfred C. LeGrow and Mark Pakan**
- K-6      *Materials Management Report: Business Roundtable Construction Industry Cost Effectiveness Project (CICE)* — Dr. George Stukhart**

---

## **SYMPORIUM L — VENTURE ANALYSIS**

---

- L-1      *Risk Analysis and Performance Results* — Henry C. Thorne, CCE**
- L-2      *Economic Evaluation of Research Projects: A Procedure* — Michael F. Davy**
- L-4      *Sensitivity Studies in the Orientation of Project Research* — Alain Chauvel and Jean-Luc Perrin**
- L-5      *The Value of a Company Versus the Value of Its Assets* — John R. Hays, CCE**
- L-6      *Selection of Discount Rates for Project Evaluations* — A. Lawrence Kolbe**

---

## **SYMPORIUM M — EDUCATION**

---

- M-2      *The Role of the Cost Engineer in the 80's* — Jean-Claude Huot**

---

## **SYMPORIUM N — PROJECT MANAGEMENT**

---

- N-2      *The Cost Effectiveness of Alternative Designs for Underground Structures* — Richard A. Roberts**
- N-3      *Outage Management: The Challenge of the 80's* — Bruce R. Hubal, CCE**
- N-4      *Construction Delay Claims Assessment/Defense* — Anthony J. Werderitsch, CCE, and Shah Firooz**
- N-5      *Project Management Systems: A Simplified Approach* — Walter M. Jazwa**
- N-6      *Project Control after Commercial Operation* — Ronald P. Vigue**

---